

SCIENCE

And Technology Program



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Information on available hydrologic modeling tools and data bases must be made available to state, county, and municipal officials as well as to the general public. Reclamation shares a common mission throughout the western United States and, for this reason, it is important for Reclamation to share information on hydrologic models with these officials and other stakeholders. Reclamation developed an inventory of hydrologic models in 1991, but that inventory needs to be updated and expanded. The effort focuses on researching information on models from a number of sources including, but not limited to, universities, state and federal water resources agencies, state water resources research institutes, and selected firms.

The project objectives are to research information available on water resources models and data bases through the Internet and other sources, to develop a website easily accessible to state, county and municipal officials and the general public, and to disseminate information on this website to appropriate county and municipal officials and to the general public. In addition to the website, information will be disseminated through conference presentations and journal articles. A portion of the website will be targeted to the specific needs of Reclamation managers and technical specialists.

During FY 1999, the electronic data base from the 1991 Inventory of Hydrologic Models was uploaded to the website. More than 1,100 modelers from federal and state agencies, universities, and private firms have been contacted and invited to participate. An Interagency Personnel Agreement with Dr. Vijay Singh of Louisiana State University - an internationally recognized expert in the field of hydrologic modeling - was completed. Dr. Singh contributed detailed overviews of numerous hydrologic models and also identified many of the sources for information contained in the inventory.

Partners participating, primarily through in-kind services include a number of Reclamation regional and area offices, the Army Corps of Engineers, the U.S. Geological Survey, the Natural Resource Conservation Service, the Agricultural Research Service, the Environmental Protection Agency, and several leading universities: Colorado State University, Louisiana State University, the University of Arizona, and Utah State University.

Singh, V.P., S. P. Meyer, J. D. Rieker, D. K. Frevert, and M. A. Treviño. The Hydrologic Modeling Inventory - A Cooperative Research Effort. Abstract accepted for publication in the Proceedings of the American Society of Civil Engineers Watershed Management 2000 Conference - June 2000; Fort Collins, Colorado.

Meyer, S.P. and M. A. Treviño. The Bureau of Reclamation Hydrologic Modeling Inventory. A poster presentation at the Bureau of Reclamation's River Systems Management Workshop; October 1999, Reno, Nevada.

Website (<http://www.usbr.gov/hmi>) summarizing effort and products on line as of March 1999.